

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: mknudsen@lucent.com  
Subject: 75A4 Questions  
Message-ID: <9609272108.AA08960@bock.ih.lucent.com>

I didn't buy much at the Grayslake hamfest last weekend  
(and didn't sell much either :-( ). However, I did sacrifice a heavy  
tithe upon the altar of St James the Gray, and brought home a very  
nice in-n-out all-original (?) 75A4.

It was sold as retubed and re-aligned, and seems to work fine.  
VFO linearity is better than any other PTO product I have.  
And I've even heard a few hams on 20m when I get home before sunset  
(gawd, are tha bands lousy lately....).

However, some questions about possible problems or vintage:

(1) How much difference should there be between Slow and Fast AGC?  
This is the first rx where I can't tell the difference. Since the difference  
is only in the bleed-off resistor (not the capacitance),  
I have either a way-low resistor or a leaky cap.

(2) How should the IF Sensitivity be set? It was full up,  
and way too hyperactive, distorting all SSB signals.  
I backed it off and things improved. The manual tells how to set it with  
a calibrated generator (time to light off the URM-25E), but is there  
a better rule of thumb? BTW the manual calls this pot the "AGC Threshold."

(3) Is the vernier tuning knob supposed to have tiny setscrews  
that don't fit any of the spline tools of the R390A or 51J/R388 class?  
It got loose, and I just kept jiggling it till it came off, but  
will probly have to replace the screws so I can tighten them --  
if I ever get them out.

(4) How new/old is my set? It has vernier tuning and the equal-height  
labels on the upper right pair of knobs, which by Moore's book makes  
it a late version. But the vernier could have been retro'ed (?),  
and Moore may be wrong about the labeling (I may have seen a note to  
that effect once). Serial number is pretty low, between 5000 and 6000  
by memory. So what have I got?

(5) No question: the notch rejection filter is the best I've ever used.  
The passband tuning works as well as a Drake's, but lots  
more fun to watch! 73 es tn timer advance for any comments, mike k aa9rg

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: pmills@A.crl.com (Phil Mills)

Subject: Re: 75A4 Questions  
Message-ID: <199609272230.AA14518@A.crl.com>

>  
>(3) Is the vernier tuning knob supposed to have tiny setscrews  
>that don't fit any of the spline tools of the R390A or 51J/R388 class?  
>It got loose, and I just kept jiggling it till it came off, but  
  
>(4) How new/old is my set? It has vernier tuning and the equal-height  
>labels on the upper right pair of knobs, which by Moore's book makes  
>it a late version. But the vernier could have been retro'ed (?),  
>and Moore may be wrong about the labeling (I may have seen a note to  
>that effect once). Serial number is pretty low, between 5000 and 6000  
>by memory. So what have I got?

The same bristol spline wrenches on the R390A, R388, etc. work on the  
75A4....it may be that your set just does not have one the right size  
or that the set screws have been replaced.

You have a HIGH serial number...my A4 is in the 1700 range and it has  
the vernier dial and the noise limiter and am/cw-ssb switches lined  
up.

Enjoy your very fine receiver...

73, Phil  
Phil Mills, AB5TH               \*\*\*\* Wanted -- Tek 3A1 plug-in       \*\*\*\*\*  
pmills@a.crl.com               \*\*\*\*               -- 1957 ARRL Handbook   \*\*\*\*\*  
713-992-5762  
Friendswood, TX   (south of Houston)

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: "Grant Youngman" <nq5t@gte.net>  
Subject: Re: 75A4 Questions  
Message-ID: <199609280321.WAA13344@mail1.gte.net>

> >(3) Is the vernier tuning knob supposed to have tiny setscrews  
> >that don't fit any of the spline tools of the R390A or 51J/R388 class?  
> >It got loose, and I just kept jiggling it till it came off, but  
>

The vernier knobs on both my 75A4 and KWS-1 have set screws which  
take a 0.050" HEX wrench-- not Bristol spline as found on all the  
other knobs. Since these units came from quite different sources, I  
presume these hex screws are standard.

On the labelling of the noise limiter and mode switch -- my 75A4 is an early unit (ser. # 702) and the screening is aligned vertically ala the "late" units. It appears that what are usually considered to be early production units were produced in both styles.

Grant/NQ5T

-----  
Grant Youngman / NQ5T

nq5t@gte.net  
<http://home1.gte.net/nq5t/index.htm>

Double Oak, TX -- nr Dallas  
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From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: "William B. Ross" <billross@txdirect.net>  
Subject: Re: 75A4 Questions  
Message-ID: <324CA1C7.7134@txdirect.net>

Although the Bristol wrinches for the A4 are like those from the 390 series receivers, the one used on the vernier knob is extremely small and may not be included in most sets from military receivers. I bought a set with the GC brand in a small plastic pouch and it did contain the small one needed.

Bill K5LLK

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: arc5@ix.netcom.com (David Stinson )  
Subject: A.R.C. R-22 REC. INFO NEEDED  
Message-ID: <199609271544.IAA28219@dfw-ix8.ix.netcom.com>

Hello fellow Ironclad fans.

I have a '50s era Aircraft Radio Corp  
R-22 BC band navigation receiver. It has  
a 12-pin connector on the front. Does anyone  
have the pinouts for this unit?

I am seeking a good condition R-20 and an R-21.

Thanks ES 73 Dave AB5S  
arc5@ix.netcom.com

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: Scott Robinson <spr@earthlink.net>  
Subject: Alignment with sweep techniques  
Message-ID: <324C8227.75E2@earthlink.net>

Folks,

In connection chiefly with wide-band BC receivers, I've played around with using sweep generator and scopes to do alignment. You learn a lot doing this. In particular, you learn that the old textbooks (Terman and so on) are really right about RF and oscillator circuit tracking. It's never perfect, and in fact cannot be, but if you do it right it's plenty close enough.

First, set the oscillator trimmer and coil or padder to get the dial scale accurate. Then-and here's the key point-set the RF trimmer for maximum smoke BUT NOT AT THE TOP OF THE BAND! Using BC band for an example, you might adjust the oscillator trimmer and padder at 1500 and 600 KHz. But you should set the RF trimmer and padder/coil at, say, 1400 and 700 KHz. Just moving the RF setting frequencies in like that has made tracking enormously better on several sets. In this case, I evaluate tracking using the sweep generator with the IF set to its widest setting. If tracking is wrong, you get a great nasty peak on one side or another of the passband and it sounds 'orrible and screechy. If it's right, the pass band looks about the same anywhere in the band-a little bit narrower at the bottom end due to front end selectivity.

With narrower band IFs as used in ham and other comx receivers, you might not see the frequency response error, but poor tracking costs sensitivity. Many of the 1930s home multi-band receivers (Philco, Zenith, things like that) that I play with do not have enough trimmers on the RF and mixer circuits to do this stuff right. If you find yourself in that situation, you can compromise the oscillator settings, trading dial scale accuracy for sensitivity. In fact the "rock the tunig cap while adjusting the RF padder" method causes you to do just that.

Another two cents' worth tossed into the aether...

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: Liles Garcia <liles@bitinc.com>  
Subject: Antique Radio Swap Meet in Portland Oregon  
Message-ID: <199609280217.TAA24058@bit.bitinc.com>

Good evening everybody,

This is for those list members in the Pacific Northwest, and also for general information:

VINTAGE RADIO and RELATED NOSTALGIA

SHOW, SALE, and SWAP MEET

Saturday, October 5, 1996

The Northwest Vintage Radio Society is sponsoring its Fall, 1996 Vintage Radio and Related Nostalgia Show, Sale, and Swap Meet on Saturday, October 5, 1996.

Location: Multnomah Arts Center 7688 SW Capitol Hwy  
SW 32nd Ave and Capitol Hwy in the Multnomah Section  
of Portland

Time: 9:00 AM until 12:30 PM

Date: October 5, 1996

- \* Vintage Radios
- \* Vintage Televisions
- \* Vintage Phonographs
- \* Vintage Nostalgia
- \* Transistor Radios
- \* Radio and TV Advertising

Directions: From downtown Portland, take I-5 southbound to the Multnomah Blvd exit. Turn right on 31st Avenue from Multnomah Blvd.

There will be over 4000 square feet of exhibits. Collectors, hobbyists, and dealers will be present. If you would like to bring some items to swap or sell, table space is available by reservation. This is a community event that is sponsored by the

Northwest Vintage Radio Society.

Northwest Vintage Radio Society  
Box 82379  
Portland, Or 97282

This notice posted by Liles Garcia, liles@bitinc.com. Please email me if I can answer some questions or provide more information.

Thanks and everybody have a great weekend!!

Regards from Aloha, Oregon,  
Liles  
liles@bitinc.com

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
Subject: Re: BA Call For Votes

Hi Dick

The form required by the automated tally mechanism:

address: rrab@infobahn.net

text: I vote YES on rec.radio.amateur.boatanchors

In approximately 24 hours, you will receive an acknowledgement of vote.

----- Forwarded message ends here -----

Dick Dillman  
WPE2VT N6VS ex-WA2BJK  
<ddillman@igc.apc.org>  
Collector of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: Dave Creek <dcreek@pixi.com>  
Subject: BA Failures (long)  
Message-ID: <Pine.PCW.3.95.960927085059.2615B-100000@mothra26.pixi.com>

I have been meaning to write this message for some time. A recent series of messages concerning multiple serial failures in a military receiver prompted me to just set down and do it.

Most of us take primary power for granted. Even in Hawaii where we have no grid tie, the line voltage and frequency are stable. Not so in many military applications.

As an example, I maintained AN/GRC-26 radio sets for many years. Depending on the model, these truck mounted HF radio huts contained two R-388s and a BC-610 or two R-390s and a T-368. The standard power unit was a PE-95 trailer mounted 7.5 KW generator driven by a 4 cylinder Jeep engine. This generator had a very simple governor. The normal operating procedure was to start the generator, turn on all the equipment and lights in the shelter and then by means of the engine throttle, the frequency was adjusted to 60 cps on a panel mounted vibrating reed meter and the voltage was adjusted to 110 volts with the generator field reostat.

During operation, upon keying the transmitter, the voltage would drop as low as 90 volts depending on the governor. When the transmitter was unkeyed, the voltage would jump as high as 140 volts. These units were used in AM voice and RTTY service and a lot of CW. You can well imagine a graph of the line voltage fluctuations when operating 15 WPM CW.

As another example, I was on a base in Korea where the power coming from the base substation (Korean supplied) was 140 volts phase to neutral so that the TACAN site at the end of the line received 110 volts. We had so much down time due to power surges blowing equipment that we finally ordered voltage stabilising transformers for all critical areas.

All this was during the era when most ground electronics equipment was still vacuum tubes. We found that after repairing equipment hit by voltage surges, we could count on subsequent failures of components due to partial damage that would only show up over a period of months.

I believe this explains a lot of failures that we see in military boat-anchors.

Dave Creek, NH6BA  
Ewa Beach, HI  
dcreek@pixi.com

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: BA/GB Net weekend funzies

Message-ID: <9609271929.AA104079@csemail.cropsci.ncsu.edu>

Well, another find weekend, she be upon us, an' wid that Lunar Eclipse over, it should be fine fer rattlin' an' bangin' on de ol' brass monkey. Hope to 'ear ye, byes the bye, on the usual QTR/QRG....

QTR 0100Z QRG 7050R5KHZ/QTR 0200Z QRG 3579R545KHZ/QTR 0300Z QRG 1802R5KHZ

An if ye plys the ether with really ancient glowbottle burners, nee them thar glowbuggye thingies....

QTR 0400Z QRG 3579R545KHZ

Come on, now, an makes ye some fine company fer WS4S's fine TCS an' W5TVW's fine breadboard bottleburner.....

73/ZUT DE NA4G/Bob UP

p.s. If ye be bye 7020KHZ or 3520KHZ, inbetweentimes, rattles ye a dit or a call, fer a round o' QRQ. Them thar bottleburners need an occasional sprint or twoe ta keeps them fit an' spry.....

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>  
Subject: Re: BC-794-B  
Message-ID: <199609271406.JAA27327@dlep1.itg.ti.com>

At 10:08 PM 9/26/96 -0500, John Schwartzberg wrote:

>...The BC-794-B is made by  
>Hammarlund, and not being a Hammy guy, I'm not sure what it's civilian  
>designation is. Any help?

The civilian counterpart is the SP-200SX.

>...Can anyone  
>help jump start my look at this by giving me the details on this terminal  
>strip?

All connections on the two long terminal strips are power supply connections. The Super-Pro's take 4 different voltages. I don't have 'em memorized, but they're something like: -80, +175, +250 and +375. Send me your address, John and I'll get a copy of the TM out to you.

FWIW, the voltages are not critical. The TM shows battery operation of



Super-Pro's using the two highest voltage lines tied together fed with +Batt (+225 volts or thereabouts).

Regards,  
Bill Sorsby, N5BU

\*\*\*\*\*  
bill.sorsby@dlep1.itg.ti.com  
Views expressed herein are no one's fault but mine.  
\*\*\*\*\*

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: ks0f@i1.net (MIKE SANDERS)  
Subject: Chicago, Vlad, ARRL Hbook wanted, HRO, HRO coils  
Message-ID: <199609280320.WAA01637@mail1.i1.net>

Greetings All,

Just recovering from BA list withdrawal. Mother Nextel sent me to Chicago for a week to visit Mother Motorola. It was a very productive week as I see it. Anyway Wednesday evening I got to shake hands with Vlad Dvorkin and visit with him a few hours. A nice man with a real story as you might imagine. Vlad took me on a brief tour of his facility at the big M and I have never seen as much sophisticated test gear in one place in my life. I was impressed to say the least. Vlad also took me to his home and showed me his small but high quality BA collection. Most of what he had was first ever sighting for me. We closed a deal on yet one more HRO60. This one is a rack mount model and in good shape. It works but I think needs something. Will check it out later when I get the dust settled. Vlad also presented me with a 56 ARRL handbook in superfine condition. I had posted asking for one to finish the decade of the 50s. Vlad was not interested in specific years but said he would trade me for another ARRL handbook as soon as I came across one. I would like to buy a really nice one from maybe the late forties if anyone has one to part with. I have none to trade now as all my dupes have been sent elsewhere. This way I can replace the 56 that Vlad gave me.

I got in a nice T4XB from Gene Rippen while I was gone and it will complete the B line Drake for me. I have the supply and speaker and the R4B already. Also Mike Maloney sent me an A coil for my early HRO so I am now still looking for a C and D coil for the early HRO. Any loose?

Like many of you I am waiting for a new "BA" call from the FCC. Good luck to all those who are. I hope you get what you want.

Glad to be home and back on the list. Got some tubes warming in the HQ150. Going to get into the low 40s tonight here near St. Louis so the warmth from the filaments will be welcome.

73, KS0F (for

the present)

P.S. Excepting power transformer, supply choke and coils if anyone is in need of parts for an HR060 to get one flying. Drop me a note. I may be able to help.

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: "Chuck Rippel" <crippel@exis.net>  
Subject: Collins 312A-1/SC-101 Parts  
Message-ID: <199609271227.IAA05202@marlin.exis.net>

After a lot of research and about 50 telephone calls, I have been able to put together a kit of original parts by which to rebuilt the Luma-Line lamp on the 312A-4 or SC-101.

The kit includes 5 original parts. A Luma-Line lamp, 2 Leviton end caps and 2 of the sockets which screw in to the speaker which the caps plug in to. Right now, I have only 20, a number limited by both the number of end caps I was able to find and the cost v/s the minimum order for the lamps. It is possible that I may be able to find a few more parts to make up a few more.

All these parts are out of production including the lamps. If you want to rebuild your lamp assy or simply have some spares, here is the opportunity.

Also, I was only able to piece together enough caps/sockets to cover the minimum order on the lamps by which to make up these kits. Thus, I have no spares to sell individually.

Cost \$65 + \$3 shipping. Drop me an E-Mail if interested.

+++++

Chuck Rippel                      Real Radios Were Made in  
crippel@exis.net                  Cedar Rapids, Iowa

+++++

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: anthony@ix.netcom.com (Anthony Severdia)  
Subject: Re: Delano SW  
Message-ID: <199609272251.PAA00162@dfw-ix10.ix.netcom.com>

~

Terry Gaiser said-

>I think Tony is confused. The Delano VOA is alive and well and on the  
>air everyday. I believe it was the Dixon, CA VOA that he is referring  
>to. I regularly hear complaints from Hams in the area about the noise and  
>birdies from VOA, Delano.

>Best 73,

>Terry - N6UR

Terry:

You are likely quite right! I explained this to Richard by private mail earlier today. I'll have to dig in my archives for recollections of what I surmised.

What do you know about Delano's SW broadcasting schedule and other particulars? Is it still VOA? I'm interested because I was once directly involved with such TX tech operations and knew a few folks at both Dixon and Delano.

Thanks for your "tickler".

-=Tony=- W6ANV San Francisco, CA

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996

From: ZI076@ccmail.ceco.com

Subject: Differences between the original, A, B? & C HQ-180

Message-ID: <9608278438.AA843845223@ccmail.ceco.com>

Picked up an HQ-180 at Gray's Lake, Illinois on Saturday. Before I spend a lot of time & money on it, I'd kind of like to know what features were added to subsequent versions (A, B, C and the like?). Was the final C model the best? Might be interested in trade to someone who wants the original version (S/N 2900 range)

Chuck Hallett ai3o

Kenosha, WI

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996

From: mknudsen@lucent.com

Subject: Re: Differences between the original, A, B? & C HQ-180

Message-ID: <9609271855.AA08907@bock.ih.lucent.com>

There are only two revision versions, the non-A and the A.  
No B. The C means equiped with clock, so you ahve 180-C and 180-AC.

However, I think some improvements were added to late non-As,  
and some A changes were not made on early A models (like leaving off`  
the plastic dust covers over the tuning caps).

Early non-As may lack the vernier tuning control, so only a dedicated  
Hammar collector would want one. 73, mike k aa9rg

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: MODSTEPH@ACS.EKU.EDU  
Subject: Re: Differences between the orignial, A, B? & C HQ-180  
Message-ID: <01I9ZBYKPH3C0037S2@ACS.EKU.EDU>

As far as I know there were two basic model, the HQ-180 and the  
HQ-180A. Other letters indicated other things: the "C" meant with  
clock, e.g. HQ-180AC would be the "A" model with clock. There was  
also the "X" model (only on the "A," I think: HQ-180AX) which had a  
place for a totla of ten or eleven crystals for direct frequency  
control. Thius panel (also used on the HQ-145) was put in the hole  
where the clock otherwise would have fit. Just picked up one of these  
at a hamfest about a month ago...

The HQ-180 started about 1960; the -180A in 1963. No "B" model.

73, Al N5AIT  
modsteph@acs.eku.edu  
Allan Stephens  
Richmond, Kentucky  
LOOKING FOR (WTB): Morrow RTS-600S ps/spkr  
Multi-Elmac M-1070 ps  
Harvey-Wells APS-50 ps

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: John Kolb <jlkolb@cts.com>  
Subject: Re: Differences between the orignial, A, B? & C HQ-180  
Message-ID: <Pine.SCO.3.91.960927125745.19786A-100000@sd.cts.com>

On Fri, 27 Sep 1996 ZI076@ccmail.ceco.com wrote:

> Picked up an HQ-180 at Gray's Lake, Illinois on Saturday. Before I  
> spend a lot of time & money on it, I'd kind of like to know what  
> features were added to subsequent versions (A, B, C and the like?).

> Was the final C model the best? Might be interested in trade to  
> someone who wants the original version (S/N 2900 range)  
>

HQ-180 first model  
HQ-180C first model with Clock  
HQ-180A new and improved  
HQ-180AC new and improved with Clock.

>From memory:

The changes to the A model were fairly minor. The 5U4 rectifier was replaced with sand diodes, and there was a change of some sort to the final IF section - a fixed tune position to the BFO for ease in SSB tuning, I think.

I think my 180 manual (at home, of course) has an addendum describing the differences if you want the full details

Either version makes a very capable SWL receiver.

John Kolb KK6IL jlkolb@cts.com

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: gpewitt@execpc.com  
Subject: RE: Differences between the original, A, B? & C HQ-180  
Message-ID: <Chameleon.960927151002.gpewitt@execpc.com.execpc.com>

HQ180A was the last version. C stands for clock.  
X stands for crystal. You could have an HQ180AC or AX but not both as the crystal pad replaced the clock. The export version had no clock because of the different ac frequencies such as 50 cps. The clock only worked at 60 cps. If you want a better Hammarlund than the 180A you will have to look for an SP600.

On Fri, 27 Sep 1996 12:29:48 -0500 (CDT) ZI076@ccmail.ceco.com wrote:

> Picked up an HQ-180 at Gray's Lake, Illinois on Saturday.  
Before I  
> spend a lot of time & money on it, I'd kind of like to know what  
> features were added to subsequent versions (A, B, C and the like?).  
> Was the final C model the best? Might be interested in trade to  
> someone who wants the original version (S/N 2900 range)

>  
> Chuck Hallett ai3o  
> Kenosha, WI  
>

-----  
Name: Gary Pewitt N9ZSV  
6120 W. Calumet Rd. Apt 204  
Milwaukee, WI 53223  
414 355 8147 Home 414 297 4307 Work  
E-mail: gpewitt@execpc.com  
From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: John Kolb <jlkolb@cts.com>  
Subject: RE: Differences between the original, A, B? & C HQ-180  
Message-ID: <Pine.SCO.3.91.960927172813.2900A-100000@sd.cts.com>

On Fri, 27 Sep 1996 gpewitt@execpc.com wrote:

> at 60 cps. If you want a better Hammarlund than the  
> 180A you will have to look for an SP600.

I'm wondering in what way the SP-600 would be better than a HQ-180. I always thought the 180 was unequalled in it's ability to get around interference by having a tunable notch filter at the 455 kHz IF section, and then a fine tuning control after that for the 3rd IF (60 kHz), so that you could set the notch on a interfering carrier, and then fine tune the IF position to get th best signal from whats left. I'll admit the 180's IF didn't have the best possible shape factor, but I never heard that the SP-600 had the straight sided IF of a mech filter either.

John

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: Scott Robinson <spr@earthlink.net>  
Subject: Digital circiut niose containment  
Message-ID: <324C7E85.4BDF@earthlink.net>

Folks,

Just saw someone ask about keeping the noise from a digital frequency indicator associated with a receiver from gumming up the works.

It can proibalby be done, but considerable care will be needed. I work designing professional audio equipment and have dealt with keeping that stuff both in and

out. First rule; use the slowest logic family you can. 74AC stuff works fine but switches very fast and makes quite a ruckus. First thing is to divide the input frequency by a bunch so that the rest of the circuit can be slow stuff-4000 family or HC.

Next, seal the box! Attach the cover with lots of screws-say, one every 2 inches or so. Really only two things need to penetrate the box-power and input frequency. Use a commercial line filter for the AC power. Most of them are pretty good up to 30 MHz or so if properly grounded. That means the filter should have a shielded cover and it should connect to the chassis where it sticks through the mounting hole. A 3 inch piece of wire is a open circuit as far as this stuff goes.

The RF input is harder. You might build a small sub-compartment inside the counter box with a linear (video op-amp or just a FET follower) buffer to ensure one-way flow of information.

You will have to put a shield behind or in front of the display-window screen if in front?

If this containment of RF sounds hard, it is. But it's nice fodder for tinkering, which is more fun than doing lotsa math.

Regards,

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996

From: Steve Byan <steve@hi.com>

Subject: digital frequency display

Message-ID: <v03007806ae71cba5a814@[140.243.30.128]>

I'd like to put together a digital counter capable of compensating for two or three IF's to use as a frequency display for my boatanchors. I know Radio West used to sell such a thing, and I recall that the designer of it posted to boatanchors. I neglected to save that message :-(

Is there a source for a PC board or kit for a BA frequency display? As a last resort, does anyone manufacture assembled frequency displays?

Thanks in advance.

Regards,  
-Steve

Steve Byan  
Hitachi Computer Products (America), Inc.  
1601 Trapelo Road

internet: steve@hi.com

phone: (617) 890-0444

Waltham, MA 02154

FAX: (617) 890-4998

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: "Brian Carling" <bry@mail1.mnsinc.com>  
Subject: Re: digital frequency display  
Message-ID: <199609271906.PAA07866@user2.mnsinc.com>

Steve - you can find a listing of numerous such kit suppliers in the massive file listing parts and kits suppliers.

It is called megalist.txt

The information you are needing can be found on my Web Site at the address listed below.

MEGALIST + HAM RADIO + HOCKEY = Bry's Page!  
Hi - visit my new Web Page at  
<http://www.mnsinc.com/bry/>

> From: Steve Byan <steve@hi.com>

>I'd like to put together a digital counter capable of compensating for two [SNIP] for Jack & pals...  
> Is there a source for a PC board or kit for a BA frequency display?

You are welcome in advance(!)  
Brian Carling in Gaithersburg, Maryland, USA  
[bry@mnsinc.com](mailto:bry@mnsinc.com)  
<http://www.mnsinc.com/bry/>

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: bgraham@tecnet1.jcte.jcs.mil  
Subject: Re: digital frequency display  
Message-ID: <199609272123.RAA14386@tecnet1.jcte.jcs.mil>

I built such a display for my kwm-2a. Unfortunately, both it and the kwm-2a and the docs are in storage, probably for the next 4 years.

It was based on an article from either 73 or qst in the very early 80s. The one in the article was for Yaesu (as I remember) but it worked fine for the collins after a minor change in when it counted up and down. The idea was to count up for the hfo



then up or down as approp for the bfo and vfo. Also had to make one minor mod (reversible) in collins and switch supply voltages to a buffer stage so it was active on both xmit and receive.

I built one for my heath sb301 which just presets then counts down the vfo and may do an article for ER about it. Not as accurate as the other one but fairly good if you use the zero beat to the cal and then set the dial for 000 or 500. Also built one from an article in sprat that counts to 455 then opens a gate and counts the vfo freq for my hq100 with the stuck slugs. Of course, it is single conversion.

73

Bill  
N5LMX/DA1WG

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: bill@skeeter.frco.com (William Hawkins)  
Subject: Re: digital frequency display  
Message-ID: <9609272205.AA07297@skeeter.frco.com>

Of course, there are vacuum tube counters for the purists. The HP 522B comes to mind, with its vertical rows of digits lit from behind by neon bulbs. Works up to 100 KC, as I recall, with 5 columns. 10.5 inch rack mount, heavy.

Regards,  
bill Hawkins

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: mknudsen@lucent.com  
Subject: Re: digital frequency display  
Message-ID: <9609272207.AA08989@bock.ih.lucent.com>

Bill, and others, how hard to you have to work to prevent digital hash from the counter chips from getting into your RX? For us hams and serious SWLers with a coax feed to a high outdoor antenna, maybe not so hard, but what about the cliff dweller with 20' of wire strung across the ceiling?  
Tnx es 73, mike k aa9rg

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: John Kolb <jlkolb@cts.com>  
Subject: Re: digital frequency display  
Message-ID: <Pine.SC0.3.91.960927180744.2900D-100000@sd.cts.com>

On Fri, 27 Sep 1996 mknudsen@lucent.com wrote:

> Bill, and others, how hard to you have to work to prevent  
> digital hash from the counter chips from getting into your RX?  
> For us hams and serious SWLers with a coax feed to a high outdoor  
> antenna, maybe not so hard, but what about the cliff dweller  
> with 20' of wire strung across the ceiling?

Generally, that was not a problem with external add on displays.  
These all had power switches, so if the counter did emit hash,  
you can keep the counter turned off except when you need to know  
the exact freq, when you are setting the rx to a specific freq,  
or after you've tuned in a station, and wonder what the freq is.  
Although it's nice to have a constant freq display, these are  
the only times you NEED the display on.

John Kolb Owner, KRS, manufacturer of digital displays and  
active antennas. jlkolb@cts.com KK6IL

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: Eugene Rippen <soundval@foothill.net>  
Subject: FS BIG BA  
Message-ID: <324B50F5.2F58@foothill.net>

If you want a REAL Boatanchor, you know, one that might crack the floor,  
have I got a deal for you.

The rig I am about to describe is not mine. Anyone who is seriously  
interested, and absolutely able and willing to pick it up between  
Marysville and Grass Valley, Calif. I will give the name and phone number  
of the owner.

T368F/URT a 500 W. AM/CW transmitter which has been modified to be used  
as a Linear Ampl. It uses a 4-400A. The complete modulator is still in  
position, but not being used. My understanding is that this unit has  
been recently in successful operation. It is about 3 feet wide and 4-5  
feet high. Built in 3 sections in a rack. I would make a rough estimate  
that it weighs about 450 to 500 pounds. The units are removable from the  
rack. The bottom unit probably weighs about 300 pounds. Appearance is an  
8 at least on a 10 scale. Only \$100 buys this. The modulation

transformer is worth the price. Besides it has all the tubes. I would think one could convert it easily so that it could be used both as a Linear and as a 500 W. AM.

Gene      soundval@foothill.net

From boatanchors@theporch.com   Fri Sep 27 15:17:39 1996  
From: KB9VU@aol.com  
Subject: FS:   Drake TR-4C  
Message-ID: <960927070328\_294674004@emout18.mail.aol.com>

A fellow Ham here in St. Louis has a Drake TR-4C with noise blanker, AC-4 power supply and MS-4 speaker for sale. Condition is good to very good with a few scratches on the cabinets. Insides are dusty. Also has the original manuals.

Price is \$250 plus shipping. You can contact Tom via phone at (314)-432-2014. Tell him Mike Stover, KB9VU, passed along his number

Tom's E-Mail address is tfrank@mail1.i1.net

He is an avid BA collector!

Mike - KB9VU

From boatanchors@theporch.com   Fri Sep 27 15:17:39 1996  
Subject: FS:   Hallicrafters SX-133 receiver

I have for sale a Hallicrafters model SX-133 shortwave receiver. This is the last tube-type Hallicrafters shortwave set they made, circa 1967 - 69. General coverage 0.55 to 30 MHz with separate bandspread scales for all the ham and several (color-coded) shortwave broadcast bands. Has a tuned rf stage, 1650 kHz i-f with three position selectivity (two of them using a single crystal filter), phasing control, "S" meter, noise limiter, variable BFO, and a product detector for SSB. Provision for HA-19 calibrator, not included. The cabinet could use a coat of paint. Front panel looks very good but has some scratches, particularly around the controls. Knobs are not original but are a very close match. This receiver has been recently aligned and works very nicely; its "flywheel" bandspread tuning mechanism gets you across the whole dial with a flick of the wrist and has a wonderful feel. With xeroxed manual for the circuit-wise identical SX-130 (the SX-133 was really a cosmetic upgrade).

Asking \$85.00 OBO, plus shipping (about 35 lbs packed) from Massachusetts, zip code 02174.

Rick Ferranti  
remler@ll.mit.edu

----- Forwarded message ends here -----

\* \* \* \* \*  
\* NOTE: The message above is a re-post from the newsgroup rec.radio.swap. \*  
\* All replies \*must\* go to the person making the post, not me. \*  
\* \* \* \* \*

Dick Dillman  
WPE2VT N6VS ex-WA2BJK  
<ddillman@igc.apc.org>  
Collector of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: brq6348@rayta1.dcrb.dla.mil (Marc Chicoine)  
Subject: FS: 75A2 cabinet  
Message-ID: <9609271315.AA17011@rayta1.dcrb.dla.mil>

I have a Collins 75A2 cabinet for sale. No dents, no rust, no deep  
scratches down to the base metal, paint job in very good shape.  
Any offers?  
Marc, WC1X

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: Tom.Daley@530.gigo.com (Tom Daley)  
Subject: fs: more junkie  
Message-ID: <79b\_9609271856@gigo.com>

hello ba people i have more junkie to sell or trade. i am looking  
for gonsets ! all below plus shipping

1. cay-52239 high frequency transmitter 2-18 mhz in fair/good  
shape. no tubes but clean and full of neat rf items. meters galore !  
some mods at bottom of cabinet. dated june 42. \$75
2. hallicrafters s-38c sw rx in poor shape. rusty but complete \$15
3. marti mr-30/150-170 vhf fm rx, on 154mhz. with power supply in  
a small rack mountable shelf (plated with very minor rust spotting)  
uses four nuvistors in front end. complete and in good shape. \$20
4. 120 7" reels of audio tape. they are marked afpts (armed forces  
radio and television services) with dates they aired. was told they  
were radio programs that were broadcast. in 2 boxes dated 2/76

i dont have a reel to reel so i can not confirm that programs  
still reside on the tape. buyer beware ! \$20

5. (2) triad c-47u filter reactor (choke) new old stock !!

.3hy@1a/30 ohms or .075hy@2a/75 ohms \$20 each

6. triad c-17x filter reactor (choke) new old stock !!

1.5hy@300ma/40 ohms \$15

7. triad n-4m stepdown autotransformer new old stock !!

230vac to 115vac 150va \$15

8. triad p-30a power transformer used good pulled from gear.

600v@450ma (with center tap), 82v@80ma and 2x6.3v@4a \$20

9. jennings vacume capacitor "jcs1-2000" and "5910-583-1919"  
also marked 3000 volts. very pretty !! \$15

dont be shy with offers or trades !! located in sacramento 73

--

: Fidonet: Tom Daley 1:203/530 .. speaking for only myself.

: Internet: Tom.Daley@530.gigo.com

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996

From: Bill Moore <bill\_moore@mevatec.com>

Subject: FS:\*Misc Radio Stuff\*\*\*

Message-ID: <960927.163625@mevatec.com>

Subject:

Time:3:59

OFFICE MEMO

FS:\*Misc Radio Stuff\*\*\*

Date:9/27/96

Prices are plus shipping. Dont be afraid to make an offer. You can call at 205  
880 1207 for further info or email me at work bill\_moore@mevatec.com. Trades for  
Pilot Items are always welcome. Thanks

1. Newark Electronics 1949 catalog, radios, tvs and ham gear, complete but  
tattered \$12

2. Truetone Jr, white plaskon,very small prewar set, cab. cracked badly,  
complete except for vol. knob. \$40

3. RA DA instruction sheet for 1922 Westinghouse, Full color reprint \$5 pp

4."The Cathode-Ray Tube at Work" John Rider 1935 nice \$8

5. "The Principles of Radio" Henney 1938 \$8

6. B&K 707 tube tester \$50

7. Zenith Transoceanic 7G605 service data \$4 inclues ship.

8. Original Crosley Radio Instructions for models 120, 53, 57, 77 \$6 each

9. 1933 Baltimore Radio catalog, nice condition 64 pages \$12

10. Radio Design Magazines, \$8 each, winter 28. winter 29, spring 30, summer 30,  
fall 30

11. ARRL Handbooks: 52-nice condition \$15, 67-71-nice condition \$8 each

12. WE transistor PA Amp. Looks to be new. Comes with NOS pair of 8" outside  
university PA horns. \$22

13. Gooseneck springloaded clampmount workbench lamps. good condition and  
working. No bulbs \$10 ea

- 14. Nobatron DC power supply 18-36 VDC 1.5 amp \$10
- 15. Sola Power conditioner. 1.25 amp \$6 ea
- 17. Military technical manual TM 11-1053 for RC 68/68a \$4
- 18. Bogen Power amp cha-33 with phono built into cage \$22
- 19. Ford/Philco model car radio, 1967 given away when they were test driven. rough shape \$15
- 20. AK 165 Cathedral grill cloth. This is the original grill cloth on a hard cardboard backing. very nice condition \$12
- 21. Early FM receiver for cars, Cartape brand \$12

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: "Dick Dillman" <ddillman@igc.apc.org>  
Subject: Fwd: FS: Hallicrafters SX-133 receiver  
Message-ID: <84634.ddillman@igc.apc.org>

----- Forwarded message begins here -----

From: Rick Ferranti <remler@ll.mit.edu >  
Newsgroups: usenet.rec.radio.swap  
From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: "Dick Dillman" <ddillman@igc.apc.org>  
Subject: Fwd: Re: BA Call For Votes  
Message-ID: <79536.ddillman@igc.apc.org>

For those who may have tried to cast their vote for (or against) the proposed new boatanchors newsgroup and found the referenced message from my earlier post missing from their ISP (as I did), here's the voting procedure:

----- Forwarded message begins here -----

From: Stan Korzep <skorzep@magicnet.net >  
From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: maccary@on-ramp.ior.com  
Subject: RE: Gen Radio Sig Gen  
Message-ID: <m0v6pNw-000cw6C@on-ramp.ior.com>

Jim Carrington reported on finding one of these beauties at a recent hamfest. I've had one of these BAs (muy heavy) for about 10 years and use it whenever I need to align a receiver. It has a good attenuator that goes from microvolts to volts so you can keep backing off as receiver sensitivity

increases with tune up. Jim's has microphonics which mine doesn't, but mine has an intermittent 400 cycle modulator. Some days it works, some days it doesn't come on. I swapped out the 6SN7 and that cured it--for a while--but now it is back to it's old tricks again.

I don't have a schematic but did figure out the 400 cycle thingie is a phase shift oscillator, the shift occurring across two seriesed 910pF condensers with 515k ohm input and output and 108k ohm at the center.

Any one in BA land know where I can find a schematic?

Mac--WONAX

Lawrence M. MacCary --- A Subscriber at Internet On-Ramp, Inc.

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: gpewitt@execpc.com  
Subject: Re Heath Speakers  
Message-ID: <Chameleon.960927152619.gpewitt@execpc.com.execpc.com>

My 1964 Heath catalog shows an AK-5 speaker being used with a Mohawk receiver. The square enclosure would be a much better match for the HW101. It had an 8" speaker at 8 ohms and cost \$10.95. Anyone have one for sale? I just got my Apache and HB10 SSB adaptor via UPS today. Sure looks sweet sitting next to my Mohawk. Thanks Robert.

-----  
Name: Gary Pewitt N9ZSV  
6120 W. Calumet Rd. Apt 204  
Milwaukee, WI 53223  
414 355 8147 Home 414 297 4307 Work  
E-mail: gpewitt@execpc.com  
From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: MODSTEPH@ACS.EKU.EDU  
Subject: RE HQ-180's...  
Message-ID: <01I9ZC82GBB20037S2@ACS.EKU.EDU>

Mike wrote:

Early non-As may lack the vernier tuning control, so only a dedicated Hammar collector would want one. 73, mike k aa9rg

I would disagree. A properly working HQ-180 of any ilk is an excellent receiver, and easily the equal of the HQ-170's for ham band coverage. It is the "successor" of the HQ-129X series which started in 1946, and included the HQ-140 and 150 (maybe the 160 - don't

know that particular one). While general coverage, it spreads the BC band to 30 MHz in SIX bands instead of the "usual" four favored by national, Hallicrafters and a copule of the oher Hammarlund receivers.

Excellent bandspread, excellent sensitivity and selectivity...  
IF working as it should.. :)

73, A1 N5AIT  
modsteph@acs.eku.edu  
Allan Stephens  
Richmond, Kentucky

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: Jeffrey Herman <jherman@hawaii.edu>  
Subject: ladder line  
Message-ID: <Pine.GS0.3.93.960926220303.21467B-100000@uhunix5>

Anyone know if using insulated wire for homemade ladderline

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: w4bld@juno.com (Robert B. Kerby)  
Subject: LTB Gonset G-77 and PS/MOD.  
Message-ID: <19950818.211403.5071.1.W4BLD@juno.com>

Hello Fellow Iron Lovers -

I am trying to assemble a set of the Gonset Twins, G-66B and G-77. I have a G-66B in hand, but need a G-77 and its associated power supply / modulator. If you have one of these units, please contact me. Thanks!!

Bob Kerby - W4BLD

w4bld@juno.com  
(540) 942-4356

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: W7FG <w7fg@eigen.net>  
Subject: N0TE (N zero TE) Photos  
Message-ID: <199609270403.XAA25909@newton.eigen.net>

Wayne N0TE has one of the most unique collections in the Central Midwest, his photo appeared on the front cover of ER Mag for Sept. '96.



Four Color photos of his shack are on my homepage, the files are large to retain clarity. I will be reducing file sizes dramatically in a few weeks. If you would like to see them, go to: <http://eigen.net/w7fg/n0te.html>

If anyone else has similar photos they'd like posted, throw a good clean copy in the mail to me, and it will be posted. (My address is listed below.)

Gary

W7FG Vintage Manuals  
3300 Wayside Drive  
Bartlesville, Oklahoma 74006

Telephone: 918-333-3754  
Orders Only: 800-807-6146

HomePage: <http://eigen.net/w7fg>

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: W2CRS@aol.com  
Subject: Need Test Gear Manuals  
Message-ID: <960927210029\_295212403@emout02.mail.aol.com>

Could someone please make a copy of the following two manuals-

B&K 801 Capacitor Analyst

HP 436A power meter

I'll of course pay the photocopy and mailing costs.  
Thanks and 73, Doug W2CRS

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: "John H. Dilks III" <oldradio@worldnet.att.net>  
Subject: NJ Vintage Swap & Auction Oct 5  
Message-ID: <19960927102649.AAA17252@LOCALNAME>

The NJ Antique Radio Club will hold it's Fall Swap Meet and Auction on Oct 5, 1996 in Hightstown, NJ at (exit 8 of NJ-Tpk and Route 33).

A Preliminary list of Auction goodies is available on their Web Site:

<http://www.globalent.net/oldradio>

Included are: Boatanchors (Military & Ham), Vintage Radios, Parts, Tubes including Transmitting types), Box Lots of tubes, parts, radios, books, magazines (including QST, Radio News, Radio Craft, Dealer types, and many more), Old Callbooks, Test Equipment and Radio Parts of every type. Additional Radios and Box Lots are expected in the closing days and on the day-of-sale.

Swap starts at 7:30 a.m., Auction at noon. Visit the Web site for much more information, Auction List, Motel info, Map and Directions to the Meet.

73' John Dilks, K2TQN

```
.=====
| 73's from John H. Dilks, K2TQN, oldradio@worldnet.att.net |
| .^. Collector of early Wireless Radios & Books. .^. |
| ( ~ ) Always looking for well-made Home-Brew Radios. ( ~ ) |
| ___[ ]___< Member of the New Jersey Antique Radio Club >___[ ]___ |
| Meets the second Friday of each month at 7:30 p.m. in Freehold, NJ |
|=====
| NJARC is on the WEB - http://www.globalent.net/oldradio |
| See above for our Fall Swapmeet & Auction info, on Oct. 5, 1996 |
|=====
```

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: Glenn Finerman <GFINER@nms.com>  
Subject: Other List?  
Message-ID: <s24b99c5.089@nms.com>

My apologies to the list. I was not aware there was a separate list for discussion of policy of the boatanchors list.

Thanks to the person that pointed that out to me in a private E-mail

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: mknudsen@lucent.com  
Subject: Re: RE HQ-180's...  
Message-ID: <9609272202.AA08984@bock.ih.lucent.com>

Ooops -- sorry if my posting seemed to "dis" the HQ-180 -- farthest thing from my mind, as I looked long & hard to get one myself. I meant relative to one with the vernier control.

The tuning is so smooth you don't really need the vernier for SSB. Heck, I can tune in SSB easier on the \*main\* tuning of my 180

than on the bandspread dial of some other radios.

Yes, the use of 6 rather than 4 bands is a mark of quality common to the Hammar line that started with the HQ-120 and did indeed go thru the 160, but that one was dual conversion. Of course the Super Pros have 6 bands too, but no bandspread tuning on the SP600 and uncalibrated BS on the 200 and 400.

I've found that a major trick to getting a 180 sounding right is to get the three different IFs' selectivity curves to line up -- the 3000+ KC xtal filter, 455 L/C, and 60 KC staggered L/C. It ain't easy -- you must first align the 60 KC, then align the 455 section to equal the difference between the xtal filter and the 60KC section.

I think the Vernier Tuning (missing on the early non-A's) can change your passband shape by shifting the 60 KC response off to either side of the xtal and 455 KC sections. Note the 3000+ xtal is only active on the top two bands, above 7.4 MC.

As a SW cruiser, the HQ-180 is just about tops, except maybe for the SP600 which offers wider bandwidths for hi-fi AM. 73, mike k aa9rg

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: "F r6fqHo!ht" <75121.100@CompuServe.COM>  
Subject: Rectangular caps  
Message-ID: <960927032253\_75121.100\_IHV42-2@CompuServe.COM>

Noticed a few folks trying to remake bathtub caps. I have a few that are new and they might fit your needs. That is if you want to miss out in all the fun in rebuilding your own.,

1	.25 uf	1000 VDC
1	.5 uf	600 VDC
5	1 uf	1000 VDC
1	4 uf	400 VDC
3	2 X .1 uf	600 VDC

These are all rectangular with mounting ears and are about 1.5" by 1". Most are still wrapped in paper and in the original boxes. I opened a few to see their condition.....shiny new and squeaky clean.

They will go to the first response as noted on the time/date stamp on the e-mail header. They are \$8.50 ea plus \$2.50 shipping, any quantity.

Regards from Hawaii,  
Raymond J. Cote

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: MODSTEPH@ACS.EKU.EDU  
Subject: REMEMBER: "CX" ON SUNDAY!!!!  
Message-ID: <01I9YV9HIJW2002P09@ACS.EKU.EDU>

...and I hope to work many of you during the event, the Classic  
Radio Exchange. Be threr!!!

73, Al N5AIT  
modsteph@acs.eku.edu

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: george.rybicki@lerc.nasa.gov (George Rybicki)  
Subject: Sp600 AGC?  
Message-ID: <v01510102ae718667ac88@[139.88.134.25]>

Thanks to all the net members for the help on my SP-600 it is a JX-14. Now  
a question on the back  
there are two terminals marked AVC. I assume they should be shorted, but on  
mine there is a large  
tubular capacitor going from one to a black ground binding post is this the  
normal set up or should  
I short the two terminals.

Thanks George

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: anthony@ix.netcom.com (Anthony Severdia)  
Subject: The Delano facility  
Message-ID: <199609270710.AAA21200@dfw-ix3.ix.netcom.com>

~

Richard in Sacramento, CA wrote:

>Are there any members in or near Delano--The Voice of America???  
>  
>Better yet are there any members that work at Delano?  
>  
>I need some tube advice from them.  
>=====

>  
>Richard@Sacramento,Ca.

Answer: the Delano facility was "decommissioned" several years ago. The site is for sale and is rumored to be soon acquired by some new S-W organization for high-tech communications.

If any of the old timers from there are lurking abouts, they might also be found in the several rec.radio.amateur newsgroups.

What tube advice do you need?

--Tony-- W6ANV San Francisco, CA

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: Terry Gaiser <gaiser@new-ls.light-speed.net>  
Subject: Re: The Delano facility  
Message-ID: <324B9729.3F08@bak2.light-speed.net>

Anthony Severdia wrote:

>  
> ~  
> Richard in Sacramento, CA wrote:  
>  
> >Are there any members in or near Delano--The Voice of America???  
> >  
> >Better yet are there any members that work at Delano?  
> >  
> >I need some tube advice from them.  
> >=====

> >  
> >Richard@Sacramento,Ca.  
>  
> Answer: the Delano facility was "decommissioned" several  
> years ago. The site is for sale and is rumored to be soon acquired  
> by some new S-W organization for high-tech communications.  
>  
> If any of the old timers from there are lurking abouts, they  
> might also be found in the several rec.radio.amateur newsgroups.  
>  
> What tube advice do you need?  
>  
> --Tony-- W6ANV San Francisco, CA

I think Tony is confused. The Delano VOA is alive and well and on the air everyday. I believe it was the Dixon, CA VOA that he is referring

to. I regularly hear complaints from Hams in the area about the noise and birdies from VOA, Delano.

Best 73,

Terry - N6UR

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996

From: Bob Marsh <bmarsh@hicom.net>

Subject: Transmitter for R-390A

Message-ID: <324C3BBE.756A@hicom.net>

Hi All,

I'd like to know what would be an appropriate transmitter to team up with an R-390A receiver. What was the "typical" military setup for this rig?

Thanks es 73 de Bob

--

\*\*\*\*\*

Bob Marsh - KB2SGM <bmarsh@hicom.net> NJ-QRP #39 QRP-L #724.

CW, QRP, Homebrew & Boatanchors - What a Mix

"Jeez, is it REALLY supposed to do that?"

\*\*\*\*\*

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996

From: John Kolb <jlkolb@cts.com>

Subject: Re: Transmitter for R-390A

Message-ID: <Pine.SC0.3.91.960927173509.2900B-100000@sd.cts.com>

On Fri, 27 Sep 1996, Bob Marsh wrote:

> Hi All,

>

> I'd like to know what would be an appropriate transmitter to team up

> with an R-390A receiver. What was the "typical" military setup for this

> rig?

>

Well, aboard the USS Providence and USS Oklahoma City, we would have used them with AN/WRT-2's, 500 watts, 6 ft tall.

John

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996

From: "Brian Carling" <bry@mail1.mnsinc.com>  
Subject: Re: Transmitter for R-390A  
Message-ID: <199609280105.VAA04393@user2.mnsinc.com>

> On Fri, 27 Sep 1996, Bob Marsh wrote:  
>  
> > Hi All,  
> > I'd like to know what would be an appropriate transmitter to team up  
> > with an R-390A receiver. What was the "typical" military setup for this  
  
> Well, aboard the USS Providence and USS Oklahoma City, we would have  
> used them with AN/WRT-2's, 500 watts, 6 ft tall.  
> John

Well, I know one guy who uses one with a BC-610 - a marvellous 500  
watt plate modulated rig.  
Some folks use them with a T-195 as well.  
Brian Carling in Gaithersburg, Maryland, USA  
bry@mnsinc.com  
<http://www.mnsinc.com/bry/>

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: vancleef@netcom.com (Henry van Cleef)  
Subject: Re: TUBE TESTER ROLL CHART ERROR  
Message-ID: <199609270415.XAA01018@netcom4.netcom.com>

As JOHN\_SEHRING.parti@ecunet.org discourses  
>  
> To: boatanchors@theporch.com  
>  
> Could anybody help me with a schematic and alignment (such as the exact IF  
> freq) for a Motorola table-top radio?  
455 Khz  
>  
> Model 55x11-A, has classic 5-tube AC/DC lineup: 12SA7, 12SK7, 12SQ7,  
> 50L6GT, 35Z5GT.  
Schematic? For an All-American Five? Seen one, seen them all. Yes,  
there are variations on the theme (detector/volume control wiring,  
Hartley vs. tuned grid oscillator, floating B- vs. chassis B-). But  
if you look at the sample schematic in any of the later RCA RC series  
toob manuals, you are pretty close.  
>  
> So, I put a another #47 in, and poof! It goes out with a flash.  
Yup. The short section of the 35Z5 heater, between pins 2 and 3, is  
open.  
>  
> Just want to check the filaments, they all \*test\* ok & filiments shine

> nicely on an Eico 625 emission tester. But still no nuttin'.  
>  
> Hmmm. Test them on a B-K 700 mutual transconductance type, what's this,  
> 35Z5 now shows bad, filament dead cold.  
>  
> Get out the old tube handbook--what's this? A rectifier tube (35Z5) with a  
> \*tapped\* filament? It's just made to put a #47 across that part of the  
> filament. A check with ohmmeter shows sure enuf, one part of the filament  
> is open.

This is where you start. Toob testers are for selling toobs. Simpson  
meters are for fixing radios.

>  
> So the the full current of the whole string of tubes tried to flow thru the  
> poor #47 bulb.

Yup.

>  
> The Eico 625 rollchart has an error on it! The way it tells you to set  
> things up for a 35Z5 bypasses the bad part of the filament. The other  
> (good) part of thd filament had voltage applied to it it & glowed &  
> the tube showed almost normal emission.

>  
Another reason why I don't fuss much with toob testers. I never  
worked in an engineering shop that had one (Millen, Tektronix,  
Raytheon, and some others) so never got to rely on using one. This is  
a classic failure mode for 35Z5 and 35W4. You will want to check  
current draw from the 35Z5 cathode. Typically right around 70 ma. for  
a classic AA5. If current draw is over 80 ma., check the following:

1. Grid voltage on the 50L6. Should be right at ground. If it is up  
a volt or two, replace the audio blocking cap from the 12SQ7 plate.  
This is non-toob fault no.1 with these sets (and almost any other  
radio using a resistance coupled drive to the output toob). It yanks  
the current through the 50L6 cathode resistor up---cathode current  
should be 45-50 ma.

2. 50L6 cathode resistor. Typically 150-180 ohms. Make sure it  
really is around that value. Some of these drift down, not up,  
reducing bias, and making the 50L6 oink up lots of B+ current.

Oddly enough, the last thing to give up under these circumstances is  
the 50L6. The above two problems are very common with all of the  
popular pentodes and beam tetrodes (6K6, 6F6, 6V6, 6L6, 25/35/50L6,  
etc.) and are famous for taking out 35Z5 heaters, filter chokes and  
speaker fields, power transformers. An 80 or 5Y3 will give up after a  
while, but generally around the time one of the magnetics is ready to  
pack it in from abuse. Always check B+ drain in an unknown radio.

3. Filter caps. The standard failure mode for dry electrolytics is



that they dry out and lose capacitance. But every so often, one will go leaky and oink up current.

As a rule of thumb, cathode current in 12SA7, 12SJ7, and 12SK7 circuits is 11-12 ma/stage, and in a single-ended output stage, 50 ma. Push-pull is around 70 ma., except 6L6's, which are usually 80 ma.---these values for both tubes. You can ignore the current through a 12SQ7 (around 2 ma.). Using these values, you can predict total B+ drain, and measure it using a resistor in the B+ line and a VOM. Current drain in transformer sets with 250 volt B+ is nearly the same. Six toob sets, with an RF preamplifier, have plate and screen supply decoupling in the RF/IF B+, and the decoupling caps can give trouble. If you've got serious leakage in one, always replace the decoupling resistor as well. They get cooked and noisy, if the resistance value doesn't drift.

While the RC-series manuals give a good typical AA5 circuit, the Hallicrafters S-38 is an excellent example. Hallicrafters did a "by the book" design of the AA5 in these sets, and you'll see stuff like actual decoupling of the 35L6 cathode, a shunt resistor across the 35Z5 short section, floating B- with separate chassis ground. Even if the radio wasn't wired per either of these sample schematics originally, if in doubt, wire it to the sample---it'll work just fine.

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: "Randy Zelick" <RANDY@sbii.sb2.pdx.edu>  
Subject: urm-120 update  
Message-ID: <2196C6662@sbii.sb2.pdx.edu>

Hey y'all,

Thanks to all who helped with my URM-120 malfunction. I think the wattmeter is now fixed, but getting there was a bit amusing:

According to instructions supplied by various folks I removed the detector assembly from the main body of the plug-in unit. This turns out to be very simple and easy. Sure enough the diode in the 2-30 MHz unit was bad. I actually found a replacement diode (1N23 I think), at least it fits.

But then the unit still would not work. Since I also have two other plug-ins I started swapping around parts, of course keeping track of what went where originally. The results were very consistent - there was something wrong with the sub-assembly consisting of the button capacitor and the resistor and the two spring clips. Either diode, diode housing, coupler would work fine so long as the "correct" cap-resistor assembly was present. But the resistor always checked OK. Ah Ha - it must be the button

cap - a 0.001 uF. Nope - both units' caps checked OK!! Well there is nothing else there.

OK, so a bad connection somewhere? Every bit of the parts is perfectly shiny clean and there is continuity where there should be. Grrrrr. Well after doing nothing more than dissassembling and reassembling the bits for a half hour or so suddenly both resistor-capacitor units started to work. Although I have to calibrate them (and hope they will come into calibration) as of midnight Thursday both couplers are giving reasonable indications of RF, with no indication of intermittent behavior.

I guess the moral of the story is that when all logical avenues have been exhausted, mindless fiddling is an acceptable repair strategy.

Stay tuned,

=Randy=  
Randy Zelick  
Dept. Biology  
Portland State University  
P.O. Box 751  
Portland, OR 97207  
503-725-3086 (voice), 503-725-3864 (fax)

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: "E.V. Sandy Blaize" <ebjr@worldnet.att.net>  
Subject: Western Electric 416B tubes  
Message-ID: <19960927175937.AAB23714@LOCALNAME>

Hello gang,

I have a few NOS Western Electric 6280/416B UHF firebottles. Anyone that needs these, let me know. Prefer to trade them for some more tubes or ????

73,

E. V. Sandy Blaize, W5TVW  
"Boat Anchors collected, restored, modified, traded & used!"  
ebjr@worldnet.att.net  
417 Ridgewood Drive  
Metairie, LA., 70001  
{Still looking for a Hallicrafters SR-75!}

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: Eugene Rippen <soundval@foothill.net>

Subject: What is this TUBE?

Message-ID: <324C8C17.1725@foothill.net>

I just got what looks to be a brand new tube. I can't find it in ARRL Handbook, Eimac Catalogs, Tung-Sol Catalogs, RCA Catalogs nor in the chart for my TV7.

It is the size and shape of a 4-400A. It has "JAN-8438" on the glass envelope. It also has in much smaller print below the "JAN-8438" the number "7226". Has five pins with a plate cap. The ribs of the plate are created by folding loops of the plate. I would estimate about 12-15 vertical ribs.

Can someone identify, and provide some characteristics and operational information?

Gene soundval@foothill.net

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996

From: Chuck Penson <penon@sci.mus.mn.us>

Subject: Re: WHY SB-600 Speaker WITH HW-101?

Message-ID: <324BF94E.396B@sci.mus.mn.us>

Bill Sorsby wrote:

> The SB-600 wasn't designed for the HW-101 and doesn't match it cosmetically.

<SNIP>

> So, I wonder how Heath got by selling it as the "matching speaker".

> Am I missing something here?

<SNIP>

You're not missing a thing. There was no speaker designed specifically for the HW-100/101. Most people use the SB-600. However, the HS-24 was designed specifically for the singlebanders, from which came the HW-100. So you could make a case for the HS-24 being the matching speaker.

--

Chuck Penson

WA7ZZE

penon@sci.mus.mn.us

612.221.4510 voice  
612.224.5092 fax  
<http://comped.sci.mus.mn.us>

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Faraday

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>  
Subject: Re: WHY SB-600 Speaker WITH HW-101?  
Message-ID: <199609271819.NAA13457@dlep1.itg.ti.com>

At 09:56 AM 9/27/96 -0500, Chuck Penson wrote:

>... There was no speaker designed specifically for the  
>HW-100/101. Most people use the SB-600. However, the HS-24 was designed  
specifically  
>for the singlebanders, from which came the HW-100. So you could make a case  
for the  
>HS-24 being the matching speaker.

Is that the mobile speaker? I'm remembering somesuch, possibly even with a  
leather type case.

Regards,  
Bill Sorsby, N5BU

\*\*\*\*\*  
bill.sorsby@dlep1.itg.ti.com  
Views expressed herein are no one's fault but mine.  
\*\*\*\*\*

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: Chuck Penson <penon@sci.mus.mn.us>  
Subject: Re: WHY SB-600 Speaker WITH HW-101?  
Message-ID: <324C370A.6ED4@sci.mus.mn.us>

Bill Sorsby wrote:

<SNIP>

> Is that the mobile speaker?

Well, yes. Strictly speaking it is a mobile speaker since the singlesbanders were mostly promoted for mobile use. But I've seen a lot of guys use them in fixed stations.

> I'm remembering some such, possibly even with a leather type case.

Hmmm. I don't remember any with a leather case. The only leather case I can recall was on the GW-30 walkie-talkie.

--

Chuck Penson  
WA7ZZE

penson@sci.mus.mn.us  
612.221.4510 voice  
612.224.5092 fax  
<http://comped.sci.mus.mn.us>

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Faraday

From boatanchors@theporch.com Fri Sep 27 15:17:39 1996  
From: brq6348@rayta1.dcrb.dla.mil (Marc Chicoine)  
Subject: WTB: 3-1000Z  
Message-ID: <9609271251.AA16678@rayta1.dcrb.dla.mil>

Anybody out there have a new or used 3-1000Z for sale?  
Any leads on where I could find one would be most welcome.

Thanks, Marc, WC1X

From boatanchors@theporch.com Fri Sep 27 22:55:13 1996  
From: "Jim Berry" <basalop@eskimo.com>  
Subject: WTB: E & F coils for HR0-60  
Message-ID: <199609272046.NAA11769@mail.eskimo.com>

Hello Gang,

I just got home from having couple of bum knees replaced and am over a 1000 messages behind to read. Before I even get started I want the world to know that a friend of mine has adopted an HR0-60 and he needs the E and F coils for it. He does not have Internet access so any info you have I will pass on to him.

73 Jim K7SLI

\*\*\*

Jim Berry K7SLI. QTH: Marysville, Wa (Near Seattle)

Email: basalop@eskimo.com FAX: 360-659-1360

Ham Digital: K7SLI @ K7SLI.#NWWA.WA.USA.NA

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